

ABSTRACT

An improved gas pilot control apparatus with an improved thermopile construction comprised of a consolidated thermocouple and thermopile capable of providing multiple EMF signals to operate a gas valve, transmitter/receiver and other components when positioned relative to a pilot flame. The improved thermopile requires a pilot flame of typically 500 BTU/hr to generate the EMF milli voltage required by modern gas valves to maintain reliable, rapid and safe operation of the appliance. The improved thermopile is electrically connected to an electromagnetic valve that controls the flow of gas from the source of supply to the pilot and main burner. The thermopiles are electrically connected to electromagnetic valves and to a transmitter/receiver that remotely control the flow of gas to the main burner.